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Document Type

Green Building Rating Compatibility Analysis

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Validity

	Office 2009 + V3 / Interiors 2009 + V3 / Education 2009 + V3 + V3.1 / Industrial 2009 + V3	✓
	Homestar V2 + V3 + V4	✓
	V 1.1	Not applicable
	V3.0	✗
	NABERSNZ	Not yet assessed
	Passivhaus	○
	Net Zero NZ	Not yet assessed

Client

CSR Bradford Insulation

Product Name

Bradford Gold Thermal Insulation

Product Description

Bradford Gold glasswool thermal insulation is manufactured with high recycled glass content. Bradford Insulation has low VOC emission testing, is low-allergen and does not require Ozone Depleting Substances in its content or manufacture.



Manner in which the product may contribute towards points

Legend of Symbols in EnviroSpec

Products must meet specific criteria (e.g. Paint VOC emissions, carpets, etc)



Products may help achieve points by their very nature, if they are specified and installed (e.g. bicycle racks)



Products may help achieve an outcome but they must be used in a specific manner (e.g. lighting control and zoning systems) OR This product can contribute towards the outcome but many other products or factor influence that same outcome (E.g. Potable Water Calculator)



Disclaimer - Please read this carefully

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Tool	Credit category	Points available	Requirements	Contribution symbol	Contribution Potential	Details of compliance
Green Star NZ Office 2009 + Education (2009 and V3) + Industrial 2009	MAT - 5	1	This credit rewards the use of Environmentally preferable thermal insulation products.	✓	1 point	The nominated product is ECNZ Certified, thus satisfying the requirement of this credit.
Green Star NZ Office 2009 + Education (2009 and V3) + Industrial 2009 + Interiors 2009	EMI-3	1	This credit rewards the use Insulations products that contain no Ozone Depleting Substances in their content or manufacture.	✓	1 point	Bradford Gold thermal insulation satisfies these criteria.
Green Star NZ Office V3.0 + Education V3.1 + Industrial V3.	MAT-3	5	<p>This credit rewards up to 5 points in total.</p> <p>CRITERIA A</p> <ul style="list-style-type: none"> Up to 3 points are allocated for the use of Environmentally preferable products (including Applied coatings, Insulation, Flooring, Internal walls and partitions). Each product type is worth up to 1 point. <p><u>Benchmarks are:</u></p> <ul style="list-style-type: none"> - 0.5 points are awarded if > 50% of a selected product type complies - 1 point is awarded if > 90% of a selected product type complies. <p>CRITERIA B</p> <p>Up to 2 further points are allocated if "common uses of PVC" (including flooring and resilient wall coverings, pipes, wires and blinds) meet the GBCA Best Practice Guidelines or are PVC-free. 1 point is awarded if > 60% by cost complies and 2 points are awarded if > 90% by cost complies</p>	✓	Up to 1 point	<p>CRITERIA A.</p> <p>Bradford Gold is certified by ECNZ, thus contributing up to 1 point (unweighted in the calculator.)</p> <p>All Bradford Gold products are manufactured in the same manner as the ECNZ certified range and lower R-value versions of Bradford Gold also contribute towards this credit.</p> <p><i>Note: the remaining points in criteria A are achieved if the other product types also comply.</i></p>
Green Star NZ Office V3.0 + Education V3.1 + Industrial V3.0 + Interiors V3	EMI-3	1	This credit rewards the use Insulations products that contain no Ozone Depleting Substances in their content or manufacture.	✓	1 point	Bradford Gold thermal insulation satisfies these criteria.
Homestar (V2 and V3)	EHC - 6	15	This credit rewards the good thermal performance of the overall building design, encompassing insulation, glazing, orientation, ventilation and massing.	○	Contribution potential	Thermal insulation products are strongly encouraged in the walls, ceilings (and under floor) to level that are higher than required by Building Code to help achieve a better thermal performance of the building.

	EHC - 7	4.5	This credit rewards the minimisation of moisture accumulation and condensation within the property. Minimum levels of insulation are required to pass the mandatory requirements.	○	Contribution potential	Assuming the floor has an R value of at least R1.5, using Bradford Gold thermal insulation can easily help achieve at least R 1.5 final construction value for walls and ceiling which provides 0.5 points. By increasing the insulation level to at least final construction values of R2.0 for wall, floor and ceiling and including efficient windows with R0.3, then this can provide an additional 1.1 points. <i>The remaining points relate to moisture control, extraction, drainage and ventilation. Please refer to Technical Manual.</i>
	MAT-1	9	This credit rewards the use of eco-preferred and responsibly sourced materials. Insulation products are one of thirteen possible construction types eligible for 1 merit each.	✓	1 merit (out of 1 available for this construction system)	Bradford Gold is certified by ECNZ. All Bradford Gold products are manufactured in the same manner as the ECNZ certified range and lower R-value versions of Bradford Gold also contribute towards this credit.
Homestar V4	EHC-1	20	This credit rewards the good thermal performance of the overall building design, encompassing insulation, glazing, orientation, ventilation and massing.	○	Contribution potential	Thermal insulation products are strongly encouraged in the walls, ceilings (and under floor) to levels that are higher than required by Building Code to help achieve a better thermal performance of the building. The nominated product(s) can help achieve this outcome.
	EHC-4	5	This credit rewards measures that reduce condensation on and within building components to improve the indoor environment for occupants.	○	Up to 1 point	Provided there is no thermal bridging in the design from steel or concrete elements (or that these thermal bridges are isolated with insulation) then the nominated products can help achieve the minimum construction system R values required for Walls/Ceilings.
	MAT-1	10	This credit rewards the use of eco-preferred and responsibly sourced materials. Insulation products are one of thirteen possible material categories eligible for 2 points each.	✓	2 points (out of 2 available for this material category)	CRITERIA A. Bradford Gold is certified by ECNZ, thus contributing up to 1 point (unweighted in the calculator.) All Bradford Gold products are manufactured in the same manner as the ECNZ certified range and lower R-value versions of Bradford Gold also contribute towards this credit.
Living Building Challenge	Imperative 10	Pass/Fail	This imperative restricts the use of products that contain Red List chemicals as nominated by the Living Building Challenge.	✗	-	Not yet assessed.
	Imperative 12	Pass/Fail	This imperative encourages responsible industry when sourcing product and materials by rewarding the use of FSC certified timber and/or products that have Declare ingredients label.	✗	FAIL	Bradford Gold Insulation does not currently hold a DECLARE label.
SBN Circular Economy Office Model V1.1		Pass/Fail	This product has not been assessed against this criteria.	-	-	N/A
Passivhaus	Exterior Building Component	Pass/Fail	Passivhaus accreditation requires the building to abide by 5 principles:	○	Contribution potential	The nominated product is of essential use to help achieve sufficient building envelope

	nt - Opaque		<ul style="list-style-type: none"> • good levels of insulation • minimal thermal bridges • passive solar gains and internal heat sources • excellent level of airtightness • good indoor air quality, provided by a whole house mechanical ventilation system with highly efficient heat recovery. <p>Opaque external building elements in a passive house must meet certain minimum U-value criteria depending on climate zone.</p> <p>NZ North Island is assigned "warm" climate zone (U-value required < 0.50) and NZ South Island is assigned "warm temperate" Climate Zone (U-value required < 0.25).</p>			<p>thermal performance.</p> <p>The thickness and R values of the insulation required will depend on the climate zone and other element products (such as framing).</p> <p>The system or element final U-value needs to be determined on a project basis by a certified Passive House Consultant, using approved software.</p>
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